

DRILL HOLES

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BORDER REV: DATE: June 1, 2004

BY: \$USERNAME\$

PROJECT DESCRIPTION

GENERAL:

THIS PROJECT INVOLVES THE RECONSTRUCTION OF THE EXISTING TRAFFIC SIGNAL AT MD 193 AND THE ENTRANCES OF NASA GODARD, AND CIPRIANO SHOPPING CENTER IN PRINCE GEORGE'S COUNTY.

MD 193 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION:

THE INTERSECTION OPERATES A NEMA SIX PHASE, FULL-ACTUATED MODE. MD 193 THROUGH MOVEMENT OPERATE CONCURRENTLY, WITH AN EXCLUSIVE/PERMISSIVE LEFT TURN FOR BOTH APPROACHES AND CONCURRENT NAVIGATOR PEDESTRIAN MOVEMENTS TO CROSS BOTH LEGS OF ENTRANCE TO NASA, AND THE ENTRANCE TO CIPRIANO SHOPPING CENTER MOVEMENTS OPERATE CONCURRENTLY, WITH AN ALTERNATE NAVIGATOR PUSHBUTTON PEDESTRIAN PHASE TO CROSS THE EAST LEG OF MD 193.

CONTROLLER INFORMATION:

A NEMA EIGHT-PHASE, FULL-ACTUATED CONTROLLER WITH ALL NECESSARY EQUIPMENT HOUSED IN A BASE-MOUNTED CABINET SHALL BE INSTALLED AT THE INTERSECTION.

SEE GENERAL NOTES FOR INSTRUCTIONS IN REGARD TO THE NAVIGATOR PEDESTRIAN EQUIPMENT.

CONTACT PERSONS FOR DISTRICT 3 ARE AS FOLLOWS: CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. MAJID SHAKIB
ASSISTANT DISTRICT ENGINEER - TRAFFIC
301-513-7318

MR. RICHARD DAFF SR.
CHIEF, TRAFFIC OPERATIONS
410-787-7630

MR. KEVIN NOWAK
ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
301-513-7336

MR. ED RODENHIZER
SECTION CHIEF SIGNAL OPERATIONS
410-787-7650

MR. WAYNE MOWDY
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
301-513-7304

CONTACTS FOR BALTIMORE GAS ELECTRIC
BILL DOHERTY
7317 PARKWAY DRIVE SOUTH
HANOVER, MARYLAND 21076
(410) 859-9426
(THE EXISTING METER ON THE
CONTROLLER IS BGE 57442282)

MR. AUGIE REBISH
ASSISTANT DISTRICT ENGINEER - UTILITIES
301-513-7350

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED FOR APPROVAL PRIOR TO INSTALLATION.

ITEM NO.	QUANTITY	DESCRIPTION
9016	1 EA	SHEET ALUMINUM GROUND MOUNTED SIGN
9044	1 EA	NEMA EIGHT PHASE, FULL-TRAFFIC-ACTUATED CONTROLLER WITH TELEMETRY, VIDEO DETECTION UNIT, CENTRAL CONTROL NAVIGATOR UNIT, ONE 4-CHANNEL AMPLIFIER AND ALL NECESSARY EQUIPMENT HOUSED IN A SIZE 6 BASE MOUNTED CABINET.
9086	1 EA	VIDEO DETECTION INTERFACE EQUIPMENT
9570	28.5 SF	SHEET ALUMINUM GROUND MOUNTED SIGN 3 EA W11A 2 "PEDESTRIAN CROSSING" (SYMBOL) (30"x30") 1 EA M6-2R "DIRECTIONAL ARROW - DIAGONAL" RIGHT (21"x15") 1 EA M6-2L "DIRECTIONAL ARROW - DIAGONAL" LEFT (21"x15") 1 EA W13-4(1) "ACROSS RAMP" (24"x30")
9571	106.5 SF	SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGN 3 EA R3-5L "LANE USE CONTROL - LEFT ONLY" (30" X 36") 1 EA R3-6L "LANE USE CONTROL - LEFT THRU" (30" X 36") 1 EA SHIELD ASSEMBLY (31" X 51") 1 EA SHIELD ASSEMBLY (48"x75") EAST, MD. 193, RIGHT ARROW 1 EA SHIELD ASSEMBLY (48" X 75") WEST, MD. 193, RIGHT ARROW 1 EA SHIELD ASSEMBLY (48" X 75") EAST, MD. 193, LEFT ARROW 1 EA SHIELD ASSEMBLY (31"x51") WEST, MD 193, LEFT ARROW 6 EA R10-4(1) "PUSH BUTTON TO CROSS (W/ INSTRUCTIONS) (9"x12")

EQUIPMENT LIST "B"

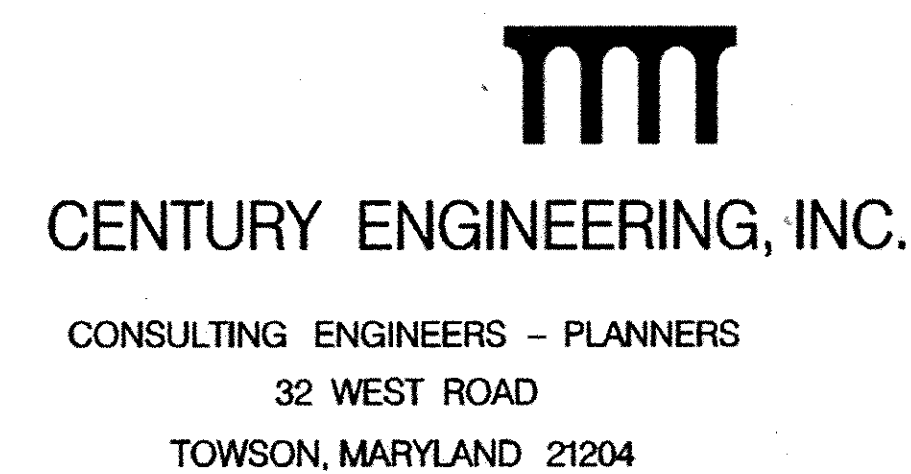
B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR
ITEM NO. QUANTITY DESCRIPTION

1001	3 EA	MAINTENANCE OF TRAFFIC
2002	8 CY	TEST PIT
5001	15 LF	FURNISH AND INSTALL 5 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
5003	630 LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS - ANY WIDTH
5005	480 LF	FURNISH AND INSTALL 12 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
5006	180 LF	FURNISH AND INSTALL 24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
6002	37 LF	DEPRESSED CURB & GUTTER
6003	70 LF	STANDARD TYPE A COMBINATION CURB AND GUTTER (12" GUTTER PAN 8" DEPTH)
6005	364 SF	4 INCH CONCRETE SIDEWALK
8001	22 CY	CONCRETE FOUNDATION
8003	29 EA	12 INCH RED OR GREEN LED SIGNAL HEAD
8004	15 EA	12 INCH YELLOW LED SIGNAL HEAD
8005	1 EA	2 WIRE CENTRAL CONTROL UNIT
8010	6 EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION & SIGNS
8014	1 EA	CONTROL CABLE, 200 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER
8015	1 EA	CONTROL CABLE, 300 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER
8016	1 EA	CONTROL CABLE, 400 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER
8017	1 EA	CONTROL CABLE, 500 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER
8027	3 EA	BREAKAWAY PEDESTAL POLE-10'
8029	1 EA	REMOVE AND DISPOSE OF EQUIPMENT
8030	5 CY	REMOVE CONCRETE FOUNDATION 12" BELOW GRADE
8038	385 LF	DISCONNECT, PULL-BACK & REROUTE CABLES
8040	60 SF	DETECTABLE WARNING SURFACES
8042	15 LF	WOOD SIGN SUPPORT 4 INCH X 4 INCH
8043	34 SF	WOOD SIGN SUPPORT 4 INCH X 6 INCH
8044	600 LF	NO 6 AWG STRANDED BARE COPPER GROUND WIRE
8050	395 SF	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED
8051	20 LF	2 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8052	140 LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8053	60 LF	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8059	1 EA	ELECTRICAL UTILITY SERVICE EQUIPMENT 120/240 VOLTS 60 AMPS
8061	60 LF	ELECTRICAL CABLE - 1 CONDUCTOR NO 4 AWG - THHN/THWN
8065	2 EA	NONINVASIVE DETECTOR, 500 FOOT LEAD IN CABLE
8066	2 EA	NONINVASIVE DETECTOR, 1000 FOOT LEAD IN CABLE
8067	6 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8069	28.50 SF	INSTALL GROUND MOUNTED SIGN
8070	106.5 SF	INSTALL OVERHEAD SIGN
8071	4 EA	VIDEO DETECTION CAMERA
8075	3 EA	27' STEEL POLE WITH A SINGLE 50 FOOT MAST ARM
8081	1 EA	27' STEEL POLE WITH A SINGLE 70 FOOT MAST ARM
8084	2 EA	250 WATT HIGH PRESURE SODIUM LAMP AND LUMINAIRE
8091	6 EA	GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT
8101	1920 LF	ELECTRICAL CABLE - 5 CONDUCTOR NO 14 AWG
8102	2735 LF	ELECTRICAL CABLE - 7 CONDUCTOR NO 14 AWG
8103	450 LF	ELECTRICAL CABLE - 2 CONDUCTOR NO 12 AWG - TRAY CABLE
8107	2 EA	15 FOOT LIGHTING ARM ON SIGNAL STRUCTURE
8112	1 EA	INSTALL CONTROLLER AND CABINET - BASE MOUNT
8114	12 EA	LED SIGNAL HEAD MODULES 16 INCH PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN

EQUIPMENT LIST "C"

C. MATERIAL TO BE REMOVED AND RETURNED TO THE STATE HIGHWAY ADMINISTRATION
ALL REMOVED SIGNAL MATERIALS ARE TO BECOME THE PROPERTY OF THE CONTRACTOR.

NONE



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 193 AT NASA AND
CIPRIANO SQ SC ENTRANCE'S
GODDARD, MARYLAND

SCALE N/A DATE 07/01/2005 CONTRACT NO. AT7185185

DESIGNED BY D. L. A. COUNTY PRINCE GEORGE'S
DRAWN BY D. L. A. LOGMILE 16019308.45
CHECKED BY T. M. H. T. I. M. S. NO. G767
F. A. P. NO. TOD NO.

TS NO. 1168C DRAWING OF SHEET NO. 2 OF 3

PLOTTED: #DATETIME#
FILE: #FILE#